

OUT 51874

TOP SECRET 162111Z

1963 SEP 16 23 45Z

25X1

PRIORITY

SEP 1963

HFS _____
CJS _____
CFC _____
PNS _____
ACH _____

Graco (File)

1

1. MISSING TIME WORDS OCCURRED ONLY ON THE AFT UNIT, A TOTAL OF 33 FRAMES.

2. *SHIFTED TIME WORDS OCCURRED ONLY ON THE AFT UNIT, A TOTAL OF 95 FRAMES. ANOMALY WAS A LEFT SHIFT OF ONE BIT-POSITION EXCEPT ON PASS D-22, FRAMES 108, 143, 157, 171, 178, 185 WHERE A LEFT SHIFT OF FOUR BIT-POSITIONS OCCURRED.

3. ON PASS D 21, FRAME 12 AND PAD D 38, FRAME 39, ALL BITS WERE EXPOSED.

4. POSSIBLE PATTERN OF BOTH THE MISSING AND SHIFTED TIME WORDS IS THEIR PROXIMITY TO THE S/I OPERATION.

5. THE FOLLOWING IS A LIST OF PASSES AND FRAME NUMBERS WHERE ANOMALIES OCCURRED:

AFT UNIT

MISSING TIME WORD

PASS FRAME NO.

Declassification Review by NGA/DoD

D 08	6
D 17	53, 60
D 21	33
D 22	45, 52, 242, 249, 257, 264
D 23	5, 12, 33
D 24	36

TOP SECRET

25X1

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D 36 16
D 37 41, 56
D 38 5, 11
D 39 49, 119
D 40 41, 56, 131
D 54 9, 15, 50, 65
D 55 15, 29
D 56 54, 67, 151

SHIFTED TIME WORDS

PASS	FRAME NO.
D 01	35
A 03	47
D 03	1, 15
D 05	6
D 06	4, 73, 94, 122, 150
D 07	7, 51, 64, 93
D 09	75, 89, 103, 117
D 17	54, 61
D 21	5, 34
D 22	53, 80, 243, 250, 256, 263, 108, 143, 157, 171, 178, 185
D 23	4, 11, 18, 25, 32, 39, 60,
D 24	14, 21, 28, 35, 56, 77
A 33	60, 67
D 36	17
D 37	42, 55
D 38	12

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D 39 7, 50, 63, 77, 98, 105
D 40 42, 55, 96, 117, 124
D 49 52, 59
A 50 71, 78
D 52 13, 20
D 54 8, 16, 51, 64, 92, 99
D 55 8, 16, 30, 43, 57, 71, 92, 115
D 56 11, 25, 53, 60, 68, 88, 102, 116, 123, 137, 144

T O P S E C R E T

END OF MESSAGE

1